

**M 5.7, 89 km WSW of Kandrian, Papua New Guinea**

Origin Time: 2023-08-13 04:09:25 UTC (Sun 14:09:25 local)  
Location: 6.4047° S 148.7654° E Depth: 19.8 km

Created: 3 weeks, 5 days after earthquake

**PAGER**  
**Version 5**

**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses**

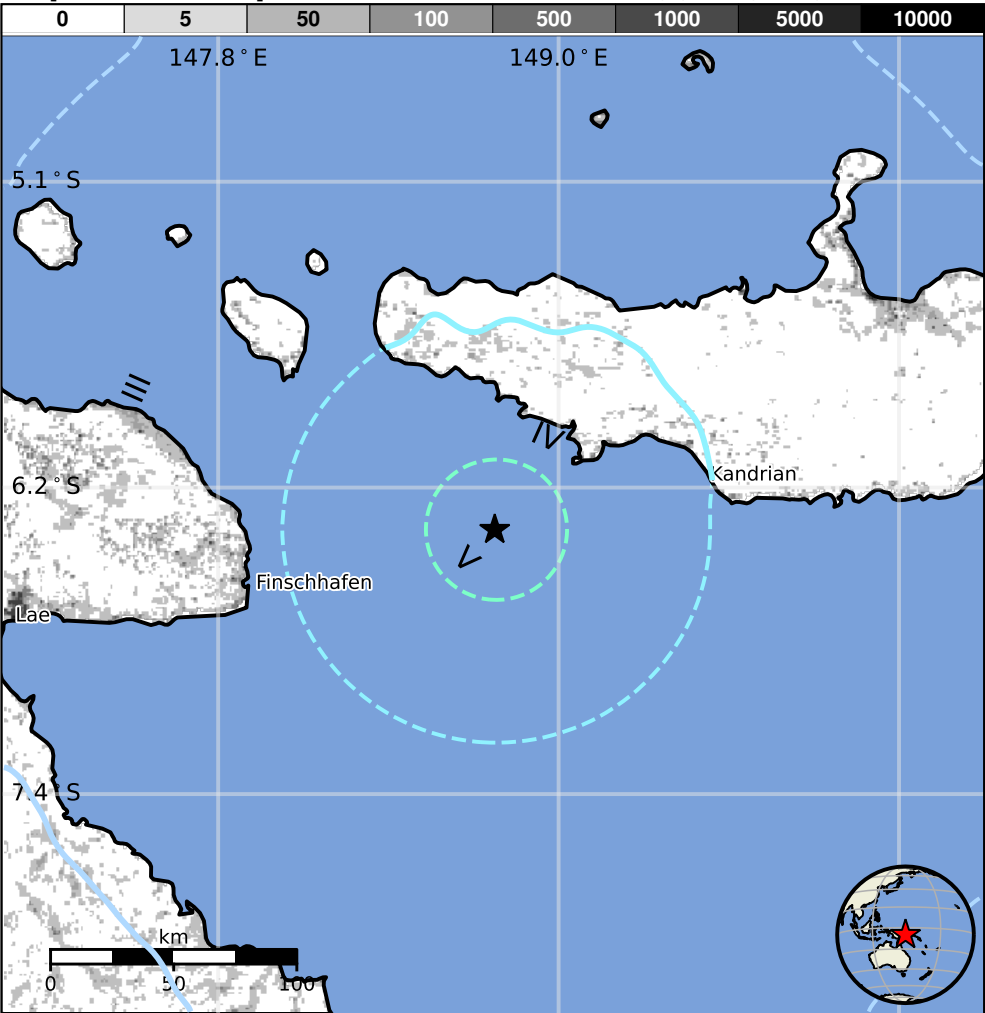


**Estimated Population Exposed to Earthquake Shaking**

| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 580k   | 38k   | 0        | 0        | 0           | 0          | 0        | 0        |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   |                       | I        | II-III | IV    | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                       |                       | Not felt | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None     | None   | None  | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None  | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

**Historical Earthquakes**

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1985-05-10 | 269        | 7.2  | VII(28k)   | 1              |
| 2005-06-04 | 213        | 6.1  | VII(27k)   | 1              |
| 1983-12-21 | 362        | 6.2  | VII(5k)    | 10             |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

**Selected City Exposure**

| MMI | City        | Population |
|-----|-------------|------------|
| IV  | Kandrian    | 1k         |
| III | Finschhafen | 1k         |
| III | Kimbe       | 19k        |
| III | Lae         | 76k        |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.  
<https://earthquake.usgs.gov/earthquakes/eventpage/us6000kzmy#pager>

bold cities appear on map. (k = x1000)  
Event ID: us6000kzmy